

Abstract

The tile flow regulator disclosed is used for regulating the level of water in the fields of an agricultural operation according to seasonal needs by a mechanism for adjusting the outflow of water from the tile line. The regulator includes a housing through which water from the tile line is directed and in which a partition with at least one aperture is positioned. At least one vertically movable gate is associated each aperture and with a motor, an electric cylinder, and at least one actuator bar such that, upon actuation of the motor, the gate moves to either open or close the aperture. If two apertures are included, the regulator can be fully open (both apertures open), fully closed (both apertures closed), or partially open (bottom aperture open, top one closed) to achieve the desired moisture level. Dates on which the gates will be moved can be pre-selected by remote signaling.

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